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Counting and Cardinality

Number Sense

Know number names and the count sequence	K.CC.1, K.CC.2, K.CC.3								
Count to tell the number of objects	K.CC.4, K.CC.4a, K.CC.4b, K.CC.4c, K.CC.5								
Compare numbers	K.CC.6, K.CC.7								

Number and Operations in Base Ten

Place Value

Understand foundations of and generalize about place value	K.NBT.1	1.NBT.2, 1.NBT.3, 1.NBT.4, 1.NBT.5, 1.NBT.6	2.NBT.1, 2.NBT.1a, 2.NBT.1b, 2.NBT.2, 2.NBT.3, 2.NBT.4, 2.NBT.5, 2.NBT.6, 2.NBT.7, 2.NBT.9	3.NBT.1, 3.NBT.2, 3.NBT.3	4.NBT.1, 4.NF.6, 4.NF.7	5.NBT.1, 5.NBT.3			
Extend counting sequence and read and write whole numbers		1.NBT.1	2.NBT.1, 2.NBT.1a, 2.NBT.1b, 2.NBT.2, 2.NBT.3	3.NBT.1, 3.NBT.2, 3.NBT.3	4.NBT.1, 4.NBT.2, 4.NF.6	5.NBT.1			
Compare/order numbers		1.NBT.3	2.NBT.4	3.NBT.1, 3.NBT.2, 3.NBT.3	4.NBT.2, 4.NF.2, 4.NF.7	5.NBT.3			
Round numbers				3.NBT.1	4.NBT.3	5.NBT.4			
Compose and decompose numbers			2.NBT.1, 2.NBT.3	3.NBT.3	4.NBT.5	5.NBT.1			

Addition and Subtraction

Fluently add and subtract basic facts	K.OA.1, K.OA.2, K.OA.3, K.OA.4, K.OA.5	1.NBT.4, 1.NBT.6, 1.OA.5, 1.OA.6	2.NBT.5, 2.NBT.6, 2.OA.2						
Fluently add and subtract within 100			2.NBT.5						
Add and subtract multiples of 10			2.NBT.8, 2.NBT.9						
Fluently add and subtract multi-digit numbers				3.NBT.2	4.NBT.4				
Compose and decompose numbers	K.NBT.1, K.OA.1, K.OA.2, K.OA.3, K.OA.4, K.OA.5	1.NBT.2, 1.OA.1, 1.OA.2, 1.OA.3, 1.OA.4, 1.OA.6, 1.OA.8	2.NBT.1, 2.NBT.3, 2.NBT.7, 2.NBT.8	3.NBT.2	4.NBT.2				
Use mental arithmetic		1.OA.6, 1.NBT.5	2.NBT.8, 2.OA.2	3.OA.8	4.NBT.4				
Use estimation				3.OA.8	4.NBT.3, 4.OA.3				
Use algorithms to add and subtract		1.NBT.4, 1.NBT.6	2.NBT.5, 2.NBT.6, 2.NBT.7, 2.NBT.9	3.NBT.2	4.NBT.4				
Use and explain strategies based on the relationship between addition and subtraction		1.NBT.4, 1.NBT.6, 1.OA.3	2.NBT.5, 2.NBT.7, 2.OA.1, 2.OA.2, 2.NBT.9	3.NBT.2	4.NBT.4				

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Number and Operations in Base Ten — *continued*

Multiplication and Division

Use and explain strategies based on place value and properties of operations		1.NBT.4, 1.NBT.5 1.NBT.6, 1.OA.3, 1.OA.4	2.NBT.5, 2.NBT.6, 2.NBT.7, 2.NBT.9	3.NBT.2	4.NBT.4, 4.NF.3c	5.NBT.7			
Use odd and even numbers and arrays to gain foundations for multiplication			2.OA.3, 2.OA.4	3.OA.3					
Fluently multiply and divide basic facts				3.OA.7					
Compose and decompose numbers				3.NBT.3	4.NBT.5, 4.NBT.6, 4.OA.4	5.NBT.5			
Use and explain strategies based on the relationship between multiplication and division				3.OA.6, 3.OA.7	4.NBT.5, 4.NBT.6	5.NBT.6, 5.NBT.7			
Use and explain strategies based on place value and properties of operations				3.NBT.3, 3.OA.5, 3.OA.7, 3.OA.9	4.NBT.5, 4.NBT.6	5.NBT.6, 5.NBT.7			
Use multiplication to find combinations				3.OA.3					
Interpret multiplication equations as comparisons					4.OA.1, 4.OA.2				
Interpret remainders					4.NBT.6, 4.OA.3	5.NBT.6			
Estimation					4.NBT.3, 4.NBT.6	5.NBT.5, 5.NBT.6			
Divide and fluently multiply multi-digit numbers using standard algorithm					4.NBT.5, 4.NBT.6	5.NBT.5, 5.NBT.6	6.NS.2		
Prime factorization						5.NBT.2			

Whole Numbers

Greatest Common Factor (GCF)					4.NF.1	5.NF.2	6.NS.4		
Least Common Multiple (LCM)					4.NF.1	5.NF.2	6.NS.4		
Apply Distributive Property				3.OA.5, 3.OA.7, 3.OA.9, 3.MD.7c	4.NBT.5	5.NBT.5	6.NS.4	7.NS.2a	
Powers and exponents						5.NBT.2	6.EE.1		
Square roots of perfect squares									8.EE.2
Cube roots of perfect cubes									8.EE.2

Integers

Positive and negative numbers							6.NS.5		
Opposite signs of numbers							6.NS.6a		
Graph integers on a number line							6.NS.6, 6.NS.6a, 6.NS.6c		
Graph integers on a coordinate plane							6.NS.6, 6.NS.6b, 6.NS.6c, 6.NS.8		
Order integers							6.NS.7, 6.NS.7a, 6.NS.7b, 6.NS.7d		

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Number and Operations in Base Ten — *continued***Integers** *continued*

Absolute value							6.NS.7, 6.NS.7c, 6.NS.7d	7.NS.1c	
Additive inverses								7.NS.1a, 7.NS.1b	
Multiplication of integers								7.NS.2a	
Division of integers								7.NS.2b	
Properties of integer exponents									8.EE.1

Rational Numbers

Graph rational numbers on a number line							6.NS.6, 6.NS.6a		
Order rational numbers on a number line							6.NS.7, 6.NS.7a		
Write, interpret, and explain order of rational numbers							6.NS.7b		
Graph rational numbers on a coordinate plane							6.NS.6, 6.NS.6c, 6.NS.8		
Solve real-world problems by graphing points in all four quadrants							6.NS.8		
Add and subtract rational numbers								7.NS.1, 7.NS.1b, 7.NS.1c, 7.NS.1d	
Represent addition and subtraction on a number line								7.NS.1, 7.NS.1b	
Interpret sums of rational numbers in real-world contexts								7.NS.1b	
Understand subtraction as adding the additive inverse								7.NS.1c	
Interpret products and quotients of rational numbers in real-world contexts								7.NS.2a, 7.NS.2b	
Distance between two rational numbers on a number line								7.NS.1c	
Multiply and divide rational numbers								7.NS.2, 7.NS.2a, 7.NS.2b, 7.NS.2c	
Concept of rational numbers								7.NS.2b	
Convert rational numbers to decimals								7.NS.2d	
Terminating and repeating decimals								7.NS.2d	8.NS.1
Solve real-world problems using operations with rational numbers								7.NS.3	
Complex fractions								7.RP.1, 7.NS.3	
Solve multi-step problems involving rational numbers								7.EE.3	
Convert a decimal expansion which repeats eventually into a rational number									8.NS.1

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Number and Operations in Base Ten — *continued*

Real Numbers

Concept of irrational numbers									8.NS.1
Estimate square roots									8.NS.2
Know $\sqrt{2}$ is irrational									8.EE.2
Compare the size of irrational numbers									8.NS.2
Approximate location of irrational numbers on a number line									8.NS.2

Number and Operations

Fractions

Partition shapes and understand fractions as part of a whole		1.G.3	2.G.3	3.NF.1, 3.G.2					
Express fractions as a whole number				3.NF.3c					
Represent fractions on a number line				3.NF.2, 3.NF.2a, 3.NF.2b, 3.NF.3a	4.NF.6	5.NF.2	6.NS.6c	7.NS.1	
Equivalent fractions				3.NF.3a, 3.NF.3b, 3.NF.3c	4.NF.1, 4.NF.5	5.NF.1			
Unit fractions				3.NF.1, 3.G.2	4.NF.3b, 4.NF.4a, 4.NF.4b	5.NF.7			
Compare and order fractions				3.NF.3d	4.NF.2	5.NF.5a			
Find factor pairs and multiples					4.OA.4	5.NBT.2			
Prime and composite numbers					4.OA.4	5.NBT.2			
Simplest form					4.NF.1, 4.NF.2	5.NF.5b			
Represent mixed numbers and write as improper fractions					4.NF.3b	5.NF.1			
Add, subtract, and multiply fractions and mixed numbers					4.NF.3c, 4.NF.3d, 4.NF.4	5.NF.1, 5.NF.2, 5.NF.4, 5.NF.5, 5.NF.6			
Solve word problems involving addition and subtraction of fractions					4.NF.3d	5.NF.2			
Solve word problems involving multiplication of fractions					4.NF.4c	5.NF.6			
Round fractions						5.NF.2			
Estimate sums and differences of fractions						5.NF.2			
Estimate products of fractions						5.NF.4a, 5.NF.6			
Interpret multiplication with fractions as scaling						5.NF.5			
Interpret fractions as division of numerator by denominator						5.NF.3			
Divide fractions and mixed numbers						5.NF.7	6.NS.1	7.NS.2c	
Solve word problems involving division of fractions						5.NF.7c	6.NS.1	7.NS.2c 7.NS.3 7.EE.3	

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Number and Operations — *continued*

Decimals

Understand decimal notation					4.NF.6	5.NBT.3a			
Write fractions as decimals					4.NF.5, 4.NF.6	5.NF.5b, 5.NBT.3a			
Compare and order decimals					4.NF.6, 4.NF.7	5.NF.5b, 5.NBT.3b			
Add decimals					4.NF.5, 4.NF.6	5.NBT.7	6.NS.3		
Subtract/Multiply/Divide decimals to hundredths						5.NBT.7			
Estimate sums and differences of decimals by rounding						5.NBT.4			
Represent decimals on a number line					4.NF.6, 4.NF.7	5.NBT.3b	6.NS.6c		
Subtract/Multiply/Divide multi-digit decimals							6.NS.2, 6.NS.3		
Convert rational numbers to decimals								7.NS.2d	
Terminating and repeating decimals								7.NS.2d	8.NS.1
Convert a decimal expansion which repeats eventually into a rational number									8.NS.1
Non-repeating decimals/irrational numbers									8.NS.1

Percent

Percent as rate per 100							6.RP.3c		
Find a percent of a quantity							6.RP.3c		
Solve percent problems for the whole							6.RP.3c		
Percent proportion								7.RP.3	
Percent equation								7.RP.3	
Simple interest								7.RP.3	
Sales tax and gratuities								7.RP.3	
Markups and markdowns								7.RP.3	
Commissions and fees								7.RP.3	
Percent increase and decrease								7.RP.3	
Percent error								7.RP.3	

Ratios and Proportional Relationships

Ratios and Rates

Understand the concept of a ratio							6.RP.1		
Use ratio and rate language							6.RP.1, 6.RP.2		
Understand the concept of a unit rate							6.RP.2		
Solve real-world problems using ratios and rates							6.RP.3	7.RP.3	
Tables of equivalent ratios							6.RP.3a	7.RP.2a	
Graph ratio tables							6.RP.3a	7.RP.2a	
Unit pricing							6.RP.3b		

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Ratios and Proportional Relationships — *continued*

Ratios and Rates *continued*

Constant speed							6.RP3b		
Use ratios to convert measurements							6.RP3d	7.RP3	
Unit rates involving fractions (complex fractions)								7.RP1	
Ratio and probability								7.SP.8a	
Interpret unit rate as the slope									8.EE.5
Rate of change of a linear function									8.F.4

Proportional Relationships

Recognize and represent proportional relationships								7.RP2	
Identify proportional relationships using tables or graphs								7.RP2a	
Constant of proportionality (unit rate)								7.RP2b, 7.RP2d	
Represent proportional relationships by equations								7.RP2c	
Explain what a point on the graph of a proportional relationship means								7.RP2d	
Solve proportions								7.RP3	
Use proportional relationships to solve multi-step ratio problems								7.RP3	
Graph proportional relationships								7.RP2a	8.EE.5
Compare two different proportional relationships									8.EE.5
Scale drawings								7.G.1	

Algebra and Functions

Algebraic Representation

Compose and decompose numbers	K.OA.1, K.OA.2, K.OA.3, K.OA.4, K.OA.5	1.OA.1, 1.OA.2, 1.OA.3, 1.OA.4, 1.OA.5, 1.OA.6, 1.OA.8	2.OA.1	3.OA.5, 3.OA.7	4.NBT.5, 4.NBT.6, 4.NF.3b	5.NBT.6			
Identify/Generate/Explain patterns	K.CC.4, K.CC.4a	1.NBT.5	2.NBT.2	3.OA.9, 3.NBT.3	4.NBT.1, 4.NBT.4, 4.OA.5	5.OA.3, 5.NBT.1, 5.NBT.2			
Solve addition and subtraction word problems	K.OA.2, K. NBT.1	1.OA.1, 1.OA.2	2.OA.1	3.OA.8, 3.MD.1	4.OA.3, 4.MD.2, 4.NF.3d	5.NF.2			
Assess the reasonableness of answers by rounding and estimating				3.OA.8	4.OA.3, 4.NBT.3, 4.NBT.6	5.NBT.5, 5.NBT.6			
Determine the unknown/variable		1.OA.1, 1.OA.2, 1.OA.4, 1.OA.8	2.OA.1	3.OA.3, 3.OA.4, 3.OA.6, 3.OA.8	4.OA.2, 4.OA.3	5.NBT.6	6.EE.6		
Write and solve number sentences/ equations	K.OA.1, K.OA.3, K.OA.4, K.NBT.1	1.OA.1, 1.OA.2, 1.OA.7, 1.OA.8	2.OA.1, 2.OA.3, 2.OA.4	3.OA.3, 3.OA.4, 3.OA.5, 3.OA.7, 3.OA.8	4.OA.1, 4.OA.2, 4.OA.3, 4.NF.3d, 4.NF.4c, 4.NBT.5, 4.NBT.6	5.NBT.6			

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Algebra and Functions — *continued*

Algebraic Representation *continued*

Determine if addition or subtraction equations are true or false.		1.OA.7							
Solve word problems that call for addition of three numbers		1.OA.2							
Order of operations				3.OA.8	4.OA.3	5.OA.1	6.EE.2c		
Write and solve multiplication and division word problems				3.OA.3, 3.OA.8	4.OA.2, 4.OA.3, 4.NF.4c, 4.MD.2, 4.MD.3	5.NBT.5, 5.NF.6, 5.NF.7c			
Write and evaluate expressions involving variables				3.OA.5, 3.OA.8	4.OA.3	5.OA.1, 5.OA.2	6.EE.2, 6.EE.2a, 6.EE.2c, 6.EE.6		
Identify and generate non-numeric patterns					4.OA.5				
Apply properties of operations		1.OA.3, 1.NBT.2	2.NBT.5, 2.NBT.6, 2.NBT.7, 2.NBT.9	3.NBT.3, 3.OA.5, 3.OA.7, 3.OA.9	4.OA.5, 4.NBT.5	5.NBT.5	6.EE.3	7.EE.1, 7.EE.2	
Parts of an expression							6.EE.2b		
Identify equivalent expressions							6.EE.4		
Properties of integer exponents									8.EE.1
Use scientific notation to estimate quantities									8.EE.3
Perform operations using scientific notation									8.EE.4
Choose units of appropriate size for very large or very small quantities									8.EE.4
Scientific notation and technology									8.EE.4

Equations and Inequalities

Identify values that make an equation or inequality true							6.EE.5		
Use variables and expressions to solve real-world problems							6.EE.6	7.EE.4	
Write and solve equations of the form $x + p = q$ and $px = q$							6.EE.7		
Inequalities of the form $x > c$ or $x < c$							6.EE.8		
Graph inequalities on a number line							6.EE.8	7.EE.4b	
Solve equations of the form $px + q = r$ and $p(x + q) = r$								7.EE.4, 7.EE.4a	
Compare an algebraic solution to an arithmetic solution								7.EE.4a	
Solve multi-step problems involving rational numbers								7.EE.3	8.EE.7.8
Solve inequalities of the form $px + q < r$ or $px + q > r$								7.EE.4, 7.EE.4b	
Solve linear equations with one, infinitely many, or no solutions									8.EE.7, 8.EE.7a
Solve linear equations with rational coefficients								7.EE.4a	8.EE.7, 8.EE.7b

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Algebra and Functions — *continued*

Equations and Inequalities *continued*

Solve equations of the form $x^2 = p$ and $x^3 = p$									8.EE.2
Equations in Two Variables									
Dependent and independent variables							6.EE.9		
Write equations using two variables							6.EE.9		
Form ordered pairs						5.OA.3, 5.G.1, 5.G.2			
Tables of ordered pairs						5.OA.3, 5.G.1, 5.G.2	6.EE.9		
Graphs of ordered pairs						5.OA.3, 5.G.1, 5.G.2	6.EE.9		
Analyze patterns and relationships						5.OA.3, 5.NBT.2	6.EE.9		
Represent proportional relationships by equations								7.RP.2c	
Use similar triangles to explain slope of a line									8.EE.6
Derive the equations $y = mx$ and $y = mx + b$									8.EE.6
Solve systems of linear equations by graphing									8.EE.8, 8.EE.8a
Solve systems of linear equations algebraically									8.EE.8, 8.EE.8b
Solve problems leading to two linear equations in two variables									8.EE.8, 8.EE.8c

Functions

Relations and functions									8.F.1
Understand functions									8.F.1
Graph of a function									8.F.1
Compare properties of functions									8.F.2
Identify non-linear functions									8.F.3
Linear functions in $y = mx + b$ form									8.F.3
Construct a function									8.F.4
Rate of change and initial value of a function									8.F.4
Qualitative graphs									8.F.5

Measurement

Measurement

Describe and compare measurable attributes of objects	K.MD.1, K.MD.2								
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Measurement — *continued*

Linear Measurement

Measure and order by comparing indirectly and by iterating using non-standard units of length		1MD.1, 1MD.2							
Measure length using appropriate tools			2.MD.1						
Use customary units of length to estimate, measure, and compare			2.MD.1, 2.MD.2, 2.MD.3, 2.MD.4						
Use addition and subtraction to solve word problems of length			2.MD.5,		4.MD.2, 4.MD.3, 4.MD.4	5.MD.1, 5.MD.2			
Measure to half and quarter of an inch				3.MD.4	4.MD.2	5.MD.2			
Measure to eighth of an inch					4.MD.2	5.MD.2			
Estimate using customary and metric units of length					4.MD.1, 4.MD.2				
Measure metric units of length					4.MD.1	5.MD.1			
Know measurement equivalencies within a measurement system					4.MD.1	5.MD.1			
Convert customary and metric units of length					4.MD.1, 4.MD.2	5.MD.1			

Perimeter and Area

Measure perimeter				3.MD.8	4.MD.3				
Apply the formula for perimeter					4.MD.3				
Use concepts of area to measure area				3.MD.5, 3.MD.5a, 3.MD.5b 3.MD.6, 3.MD.7, 3.MD.7a, 3.MD.7b, 3.MD.7c, 3.MD.7d, 3.MD.8	4.MD.3	5.NF.4b			
Apply the formula for area				3.MD.7, 3.MD.7b	4.MD.3	5.NF.4b			
Relate area and perimeter				3.MD.5, 3.MD.7, 3.MD.8	4.MD.3				
Find area of composite figures by decomposing				3.MD.5, 3.MD.7, 3.MD.7b, 3.MD.7d			6.G.1	7.G.6	
Relate area to multiplication and addition				3.MD.7, 3.MD.7a, 3.MD.7b, 3.MD.7c, 3.MD.7d	4.MD.3	5.NF.4b			
Solve problems involving same perimeter but different area and vice versa				3.MD.8	4.MD.3				

Liquid Volume

Estimate metric units of capacity				3.MD.2	4.MD.1, 4.MD.2	5.MD.1			
Measure metric units of capacity				3.MD.2		5.MD.1			

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Measurement — *continued*

Liquid Volume *continued*

Solve word problems involving liquid volumes				3.MD.2	4.MD.1, 4.MD.2, 4.MD.4	5.MD.1, 5.MD.2			
Convert metric units of capacity					4.MD.1, 4.MD.2	5.MD.1			
Estimate customary units of capacity					4.MD.1, 4.MD.2	5.MD.1			
Measure customary units of capacity						5.MD.1			
Convert customary units of capacity					4.MD.1, 4.MD.2	5.MD.1			

Weight and Mass

Estimate metric units of mass				3.MD.2	4.MD.1, 4.MD.2	5.MD.1			
Measure metric units of mass				3.MD.2		5.MD.1			
Solve word problems involving mass				3.MD.2	4.MD.1, 4.MD.2	5.MD.1			
Estimate customary units of weight					4.MD.1, 4.MD.2	5.MD.1			
Measure customary units of weight						5.MD.1			
Convert customary units of weight					4.MD.1, 4.MD.2	5.MD.1			
Convert metric units of mass					4.MD.1, 4.MD.2	5.MD.1			

Time

Tell and write time to the hour and half hour		1.MD.3	2.MD.7						
Tell and write time to the quarter hour and 5-minute intervals			2.MD.7						
A.M./P.M.			2.MD.7						
Tell and write time to the minute				3.MD.1					
Measure time intervals in minutes				3.MD.1	4.MD.1, 4.MD.2				
Solve word problems involving time in minutes				3.MD.1	4.MD.1, 4.MD.2				
Convert units of time					4.MD.1, 4.MD.2	5.MD.1			
Solve measurement word problems using the four operations					4.MD.2, 4.MD.3	5.MD.1			

Money

Recognize and count using coins		1.NBT.1	2.MD.8						
Sort and compare using coins and bills			2.MD.8						
Solve word problems involving money			2.MD.8						

Statistics and Probability

Data Sets and Populations

Classify objects by size, shape, and count	K.MD.3								
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Statistics and Probability — *continued*Data Sets and Populations *continued*

Organize, represent, and interpret data		1.MD.4	2.MD.9, 2.MD.10	3.MD.3, 3.MD.4	4.MD.4	5.MD.2			
Generate data in whole units of linear measurement			2.MD.9						
Generate data in fractions of an inch				3.MD.4	4.MD.4	5.MD.2			
Recognize statistical questions							6.SP.1		
Distribution of a set of data							6.SP.2		
Statistics and population samples								7.SP.1	
Random sampling of populations								7.SP.1	
Draw inferences from random samples								7.SP.2	
Multiple samples of data								7.SP.2	
Visual overlap of data distributions								7.SP.3	
Comparative inferences between two populations								7.SP.4	

Measures of Center and Variability

Measures of center							6.SP.3	7.SP.3, 7.SP.4	
Median							6.SP.5c		
Mean							6.SP.5c		
Measures of variation							6.SP.3	7.SP.3, 7.SP.4	
Range							6.SP.2, 6.SP.3		
Outliers							6.SP.5c		
Mean absolute deviation							6.SP.5c		
Shape of the data distribution							6.SP.5d		
Summarize and describe numerical data sets							6.SP.5, 6.SP.5a, 6.SP.5b, 6.SP.5c		

Represent Data, Statistical Displays

Draw scaled picture graphs and scaled bar graphs				3.MD.3					
Solve problems involving bar graph analysis			2.MD.10	3.MD.3					
Make line plots using generated linear measurement data			2.MD.9	3.MD.4	4.MD.4	5.MD.2			
Solve addition and subtraction of fractions problems involving line plot analysis					4.MD.4	5.MD.2			
Solve multiplication and division of fractions problems involving line plot analysis						5.MD.2			
Dot plots							6.SP.4	7.SP.3, 7.SP.4	
Histograms							6.SP.4		
Box plots							6.SP.4	7.SP.4	
Scatter plots									8.SP.1
Clustering and outliers									8.SP.1
Positive and negative association									8.SP.1

Concept/Skill	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Course 1	Course 2	Course 3
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Statistics and Probability — *continued*

Represent Data, Statistical Displays *continued*

Linear and nonlinear association									8.SP.1
Line of best fit									8.SP.2
Use the equation of a linear model to solve problems									8.SP.3
Two-way tables									8.SP.4

Probability

Probability and chance events								7.SP.5	
Likely and unlikely events								7.SP.5	
Relative frequency								7.SP.6	
Develop a probability model								7.SP.7, 7.SP.7a, 7.SP.7b	
Compare theoretical and experimental probability								7.SP.7	
Compound events								7.SP.8, 7.SP.8a	
Sample spaces								7.SP.8, 7.SP.8b	
Number of outcomes								7.SP.8a	
Permutations								7.SP.8a	
Simulations								7.SP.6, 7.SP.7, 7.SP.8, 7.SP.8c	
Fair and unfair games								7.SP.7b	

Geometry

Two- and Three-Dimensional Shapes and Figures

Describe shapes in the environment	K.G.1								
Position of shapes	K.G.1								
Compose two-dimensional shapes	K.G.6	1.G.2							
Decompose two-dimensional shapes		1.G.2	2.G.2, 2.G.3	3.G.2					
Analyze and compare two-dimensional shapes	K.G.4	1.G.1	2.G.1	3.G.1					
Model, build, and draw two-dimensional shapes	K.G.5	1.G.1	2.G.1	3.G.1					
Identify, name, and describe two-dimensional shapes	K.G.1, K.G.2, K.G.3, K.G.4	1.G.1	2.G.1	3.G.1	4.G.1, 4.G.2				
Partition two-dimensional shapes into equal shares/areas		1.G.3	2.G.2, 2.G.3	3.G.2					
Identify equal shares of two-dimensional shapes		1.G.3	2.G.3	3.G.2					
Identify, name, and describe three-dimensional shapes	K.G.1, K.G.2, K.G.3, K.G.4	1.G.1	2.G.1						
Analyze and compare three-dimensional shapes	K.G.4	1.G.1	2.G.1						
Classify two-dimensional figures by their properties					4.G.1, 4.G.2	5.G.4			

Concept/Skill

Grade K

Grade 1

Grade 2

Grade 3

Grade 4

Grade 5

Course 1

Course 2

Course 3

Geometry — *continued*Two- and Three-Dimensional Shapes and Figures *continued*

Describe and classify polygons by their attributes				3.G.1					
Identify, describe, and classify triangles and quadrilaterals by their attributes				3.G.1	4.G.1, 4.G.2	5.G.3, 5.G.4			
Measure sides and angles of triangles and quadrilaterals					4.MD.6, 4.G.2	5.G.3, 5.G.4			
Draw and identify points, lines, line segments, rays, and angles in two-dimensional figures					4.G.1				
Identify lines of symmetry/symmetric figures					4.G.3				
Draw polygons on the coordinate plane							6.G.3		
Use coordinates to find the length of sides of polygons							6.G.3		
Construct triangles from three measures of angles or sides								7.G.2	
Plane sections of three-dimensional figures								7.G.3	
Circles and circumference								7.G.4	

Angle Measure and Relationship

Explore angles of two-dimensional shapes				3.G.1	4.G.1, 4.MD.5				
Classify angles by their attributes					4.G.1, 4.MD.5				
Measure and draw angles					4.G.1, 4.MD.5, 4.MD.6				
Recognize angle measures as additive					4.MD.7				
Solve addition and subtraction problems to determine measures of unknown angles					4.G.1, 4.MD.7				
Supplementary angles								7.G.5	
Complementary angles								7.G.5	
Vertical angles								7.G.5	
Adjacent angles								7.G.5	
Sum of angles in a triangle									8.G.5
Exterior angle of a triangle									8.G.5
Parallel lines cut by a transversal									8.G.5
Angle-angle criterion for similar triangles									8.G.5

Area and Surface Area

Area of triangles							6.G.1		
Area of parallelograms							6.G.1		
Area of trapezoids							6.G.1		
Area of composite figures							6.G.1	7.G.6	
Area of a circle								7.G.4	